# MUHAMMAD ADAM

Senior Software Engineer

## CONTACT

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## EDUCATION

**Computer Science (Hons)**
National University of Singapore
Aug 2014 - Jan 2019

## HARD SKILLS

JS Frameworks (React / Vue)

HTML/CSS

Responsive Design

Performance Optimization

Version Control (Git)

Testing and Debugging

Build Tools (Webpack, Gulp)

RESTful APIs

Server-Side Rendering (SSR)

Single Page App (SPA)

Progressive Web Apps (PWA)

## PROFESSIONAL SUMMARY

Detail-oriented, analytical, and self-driven programmer with extensive experience building user-facing applications. Efficient and knowledgeable coder with skills in JavaScript and JavaScript frameworks such as ReactJS. Coordinated and collaborative team player with attention to detail and ability to contribute to code base improvement initiatives and UX improvement projects while meeting delivery deadlines.

## WORK EXPERIENCE

**Jan 2022 - Present**

**SENIOR SOFTWARE ENGINEER**
*Refract Technologies*

Headed the designing and implementing from ground up, AXIS Control Center, a cross platform software to interface with proprietary hardware called AXIS, full-body tracking system built for low-latency gaming, content creation and motion capture.

Developed a management software tool for Virtual Taekwondo (VTKD) to allow respective dojangs to manage their athletes for use in actual large-scale tournaments like the Olympics.

https://axisxr.gg/

**Nov 2019 - Dec 2021**

**SOFTWARE ENGINEER (E5)**
*Klass Engineering and Solutions*

Key team member to developed a software where users are able to annotate images in a dataset, train an AI model and to export the trained model that is to be embedded into surveillance system that can perform real-time detection and classification. Worked on both the frontend and backend aspects of the project.

Lead frontend engineer of an enhanced speech-to-text recognition system that is able to decode Singaporean english audio into text while being able to highlight words as when the word is spoken in the audio in real time.

Lead frontend engineer of system to allow to control a Quadrupedal Unmanned Ground Vehicle (Q-UGV) remotely. System is mainly use to use Q-UGV as first responders to support disaster rescue efforts and detect suspicious-looking articles in public areas.

Worked on a set of guidelines and templates for frontend engineers on a company level to adopt and practice to standardize the interfaces of projects within the company and to allow better code maintainability among developers.

https://klasses.com.sg/

**Aug 2019 - Aug 2020**

**BOOTCAMP INSTRUCTOR**
*Trent Global College of Technology & Management*

Conduct part-time diploma classes in vanilla HTML, CSS and JS for students who are keen to learn programming or those who are looking for a mid-career switch.

Conduct multiple 3-day bootcamps to enable students to apply what they have learnt in their diploma course into algorithmic questions.

https://trentglobal.edu.sg/

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## SOFT SKILLS

Resourceful

Team Player

Creative And Innovative

Attention To Detail

Patience

Problem Solver

Approachable

Open Minded

Continuous Learning

Customer-Centric Mindset

## WORK EXPERIENCE (CONTINUED)

**Aug 2018 - Nov 2019**

**WEB DEVELOPER**
*Picoded*

Lead frontend developer and UI/UX interface designer for the Integrated Financial Advisory Marketplace (IFAM), an online portal to simplify and digitalize the process purchasing insurance from start to end.

Lead frontend developer and UI/UX interface designer for Leolili, an e-commerce platform for businesses to book event spaces around Singapore to conduct businesses, roadshows, etc.

Developed a company website for Wen Consulting using Nuxt/Vue framework.

**May 2017 - Nov 2017**

**INTERN WEB DEVELOPER**
*OnetoOne Interactive*

Worked on the user interface for both the admin panel and the audience engagement panel, making sure they are mobile-friendly, intuitive and self-explanatory. Worked on backend to provide necessary APIs on the components that I worked on for my team to readily use.

Implemented a two-factor authentication system into their login mechanism in the backend and integrate it into the app on the frontend.

Developed an intuitive responsive website builder platform with modernized look and feel for clients to build a static webpage for their event with ease.

**Aug 2014 - Apr 2017**

**TEACHING ASSISTANT**
*National University of Singapore*

Undergraduate Teaching Assistant, responsible for conducting tutorial classes on programming methodology with Python as the programming language. Also responsible to grade online assignments and to review exam papers.

A head tutor for one of the semester. Carried supervisory responsibilities for all teaching assistants in the course and shall be required to liaise with heads of department in relation to this supervision.

## AWARDS / ACHIEVEMENTS

*Apr 2022*  **AXIS Showcase to President of International Olympic Committee (IOC) and President of Singapore National Olympic Council (SNOC)**

Showcasing AXIS technology to Thomas Bach, President of IOC and Tan Chuan-Jin, President of SNOC and how it can be incorporated into traditional sports such as Taekwondo and Boxing.

*Aug 2022*  **AXIS Showcase in Commonwealth Esports Championship (CEC) 2022**

Invited to have a booth at CEC in Birmingham to allow attendees to try AXIS with a virtual fighting game.

*Jun 2023*  **Olympic Esports Week 2023**

AXIS was used for a medal event sport, Virtual Taekwondo (VTKD).